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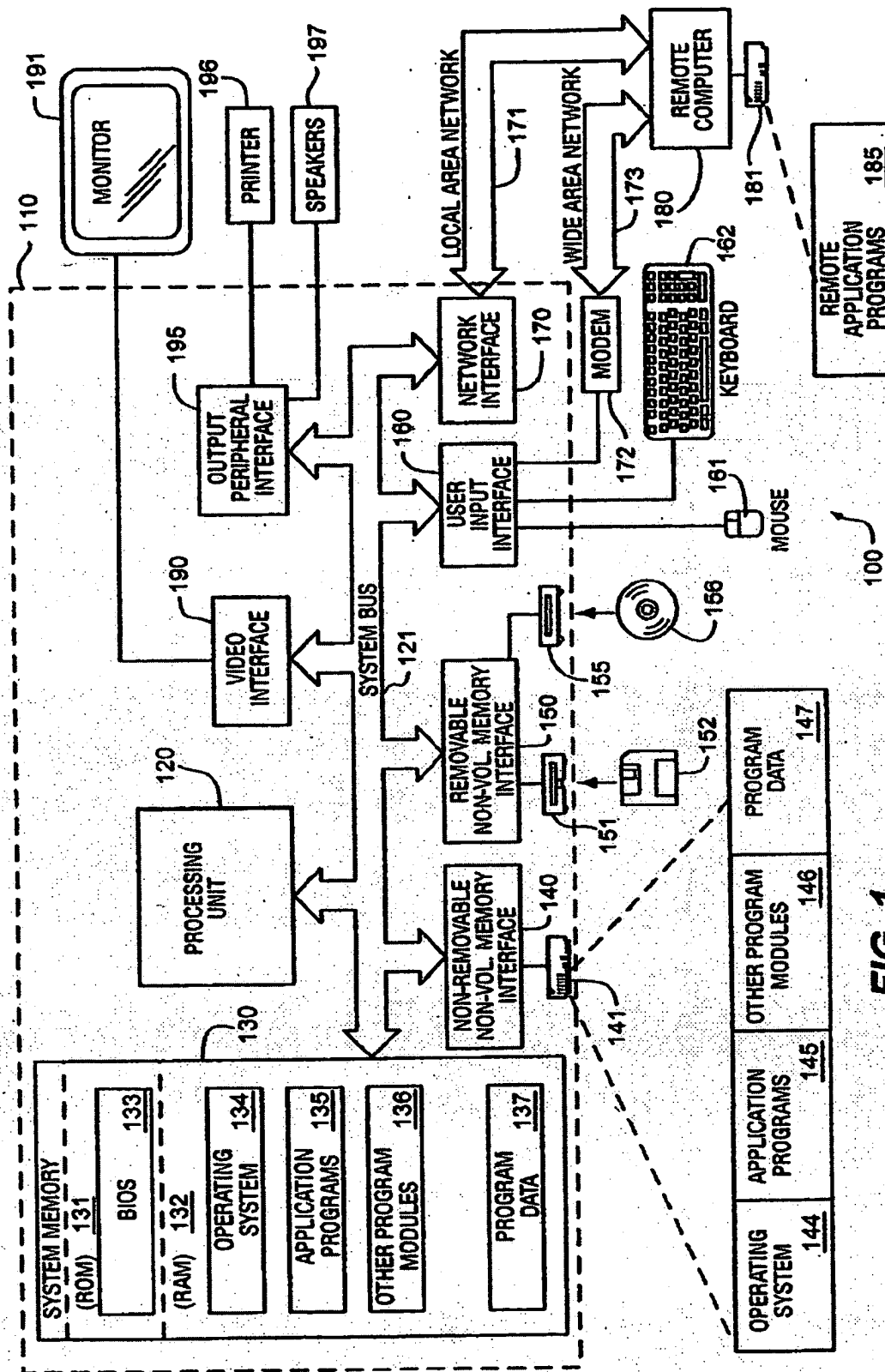
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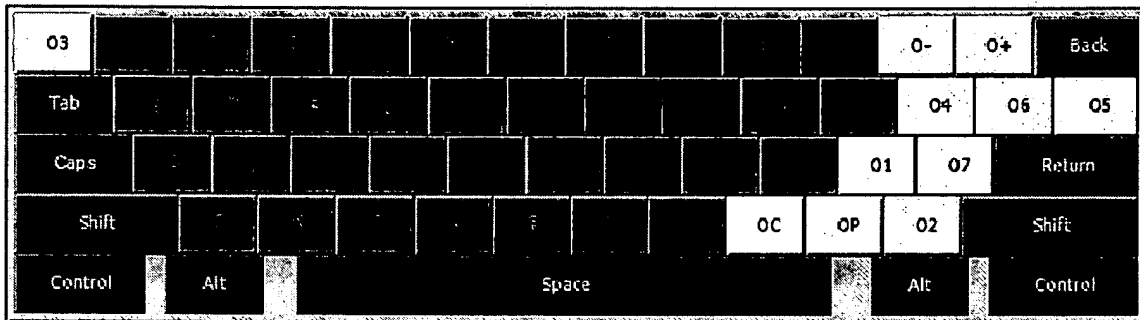
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**FIG. 1**

**FIG. 2**

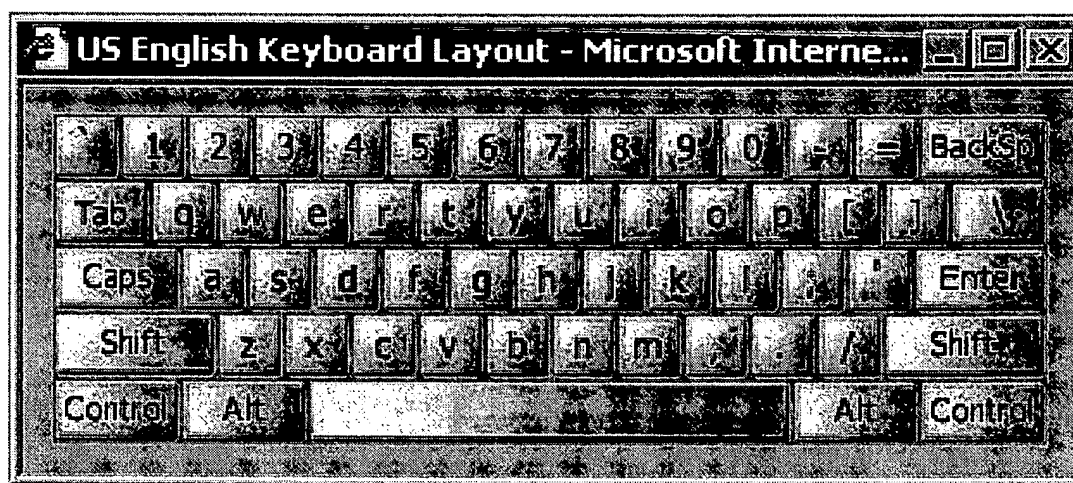


***Standard U.S. English keyboard***

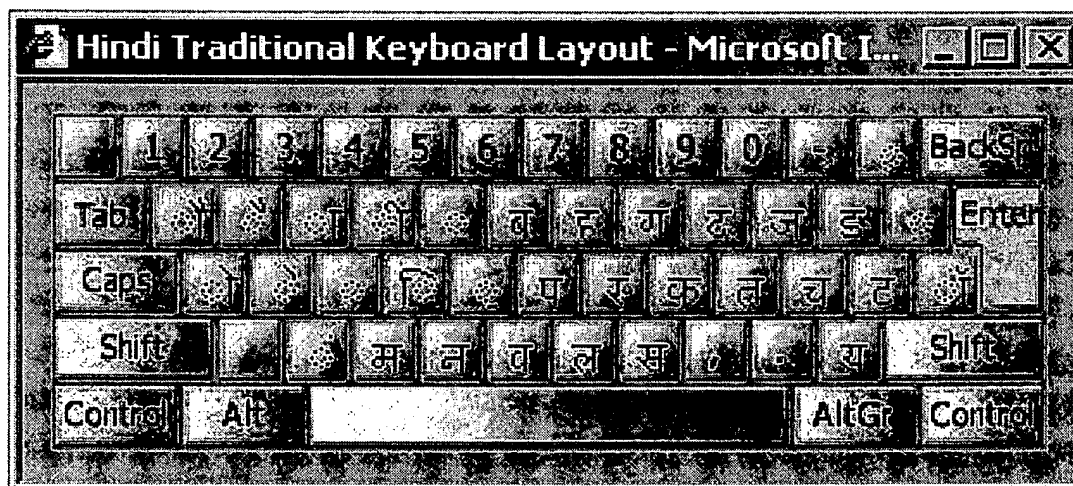
**FIG. 3**

0x29	0x02	0x03	0x04	0x05	0x06	0x07	0x08	0x09	0x0a	0x0b	0x0c	0x0d	Back
Tab	0x10	0x11	0x12	0x13	0x14	0x15	0x16	0x17	0x18	0x19	0x1a	0x1b	0x2b
Caps	0x1e	0x1f	0x20	0x21	0x22	0x23	0x24	0x25	0x26	0x27	0x28	Return	
Shift	0x2c	0x2d	0x2e	0x2f	0x30	0x31	0x32	0x33	0x34	0x35	Shift		
Control	Alt						Space				Alt	Control	

### Scan codes for U.S. Keyboard hardware (Fig. 3a)



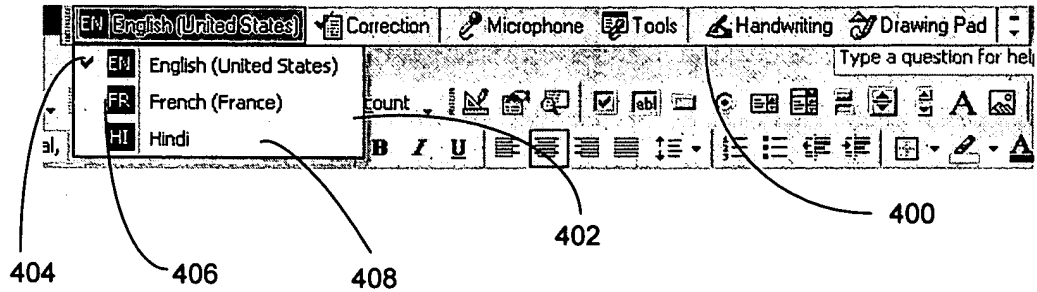
### US English Keyboard Layout (Fig. 3b)



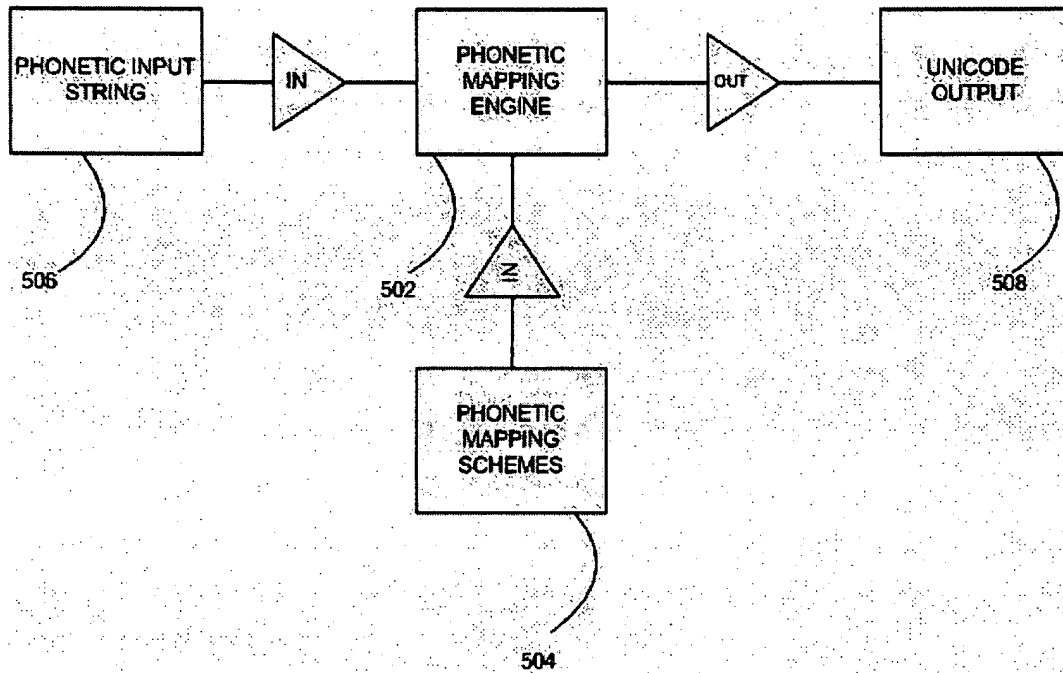
### Hindi Traditional Keyboard Layout (Fig. 3c)

**FIG. 4**

**PRIOR ART**



**FIG. 5**



**FIG. 6**  
**Hindi Phonetic Mapping Scheme**

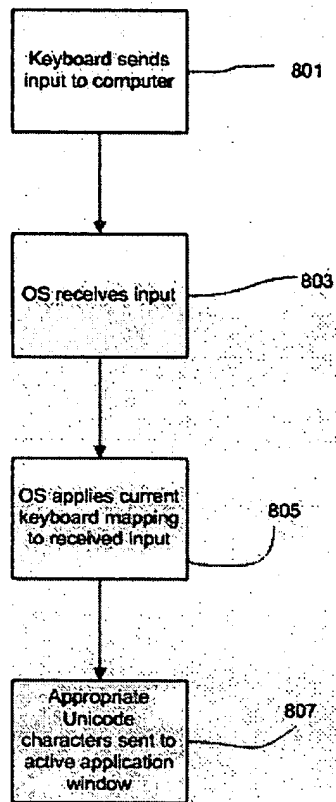
<p>600</p> <p><u>Vowels</u></p> <p>a अ</p> <p>aa, A आ</p> <p>i इ</p> <p>ii, I ई</p> <p>u उ</p> <p>uu, U ऊ</p> <p>r^u ऋ</p> <p>r^U ॠ</p> <p>e, ee, E ए</p> <p>ai ऐ</p> <p>o, oo, O ओ</p> <p>au औ</p> <p>aM, an. अं</p> <p>aH, ah. अः</p> <p>Kotpal's Phonetic Scheme for Hindi, v1.1</p> <p><u>Consonants (ya)</u></p> <p>ya य</p> <p>ra र</p> <p>la ल</p> <p>La ऌ</p> <p>va व</p> <p>Sa श</p> <p>sha ष</p> <p>sa स</p> <p>ha ह</p> <p>ksha क्ष</p> <p>gna ज</p>	<p>602 604</p> <p><u>Consonants (ka)</u></p> <p>k, ka क</p> <p>K, Ka ख</p> <p>g, ga ग</p> <p>G, Ga घ</p> <p>n^a ङ</p> <p><u>Consonants (ta)</u></p> <p>t, ta ट</p> <p>T, Ta ठ</p> <p>d, da ड</p> <p>D, Da ढ</p> <p>na न</p> <p><u>Consonants (ta)</u></p> <p>t, ta ट</p> <p>T, Ta ठ</p> <p>d, da ड</p> <p>D, Da ढ</p> <p>na न</p>	<p><u>Consonants (tha)</u></p> <p>tha त</p> <p>THa थ</p> <p>dha द</p> <p>DHa ध</p> <p>Na ण</p> <p><u>Consonants (pa)</u></p> <p>pa प</p> <p>Pa, fa फ</p> <p>ba ब</p> <p>Ba भ</p> <p>ma म</p> <p><u>Special Chars</u></p> <p>oom, AUM, OM ॐ</p> <p>aa^ ओं</p> <p>aa^ ओँ</p>
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**FIG. 7**  
**Telugu Phonetic Mapping Scheme**

<p>700</p> <p><u>Vowels</u></p> <p>a అ</p> <p>aa, A ఆ</p> <p>i ఇ</p> <p>ii, I ఈ</p> <p>u ఉ</p> <p>uu, U ఊ</p> <p>r^u ఋ</p> <p>r^U ౠ</p> <p>e ఎ</p> <p>ee, E ఏ</p> <p>ai ఐ</p> <p>o ఓ</p> <p>oo, O ఔ</p> <p>au ఌ</p> <p>aM అం</p> <p>aH అః</p> <p><u>Consonants (ta)</u></p> <p>ta త</p> <p>Ta త</p> <p>da డ</p> <p>Da డ</p> <p>na న</p>	<p>702 704</p> <p><u>Consonents (cha)</u></p> <p>ca, cha చ</p> <p>cha, CHA చ</p> <p>ja జ</p> <p>Ja జ</p> <p>N^a ఙ</p> <p><u>Consonents (ka)</u></p> <p>ka క</p> <p>Ka క</p> <p>ga గ</p> <p>Ga గ</p> <p>n^a ణ</p>	<p><u>Consonents (tha)</u></p> <p>tha త</p> <p>THa త</p> <p>dha డ</p> <p>DHa డ</p> <p>Na న</p> <p><u>Consonents (pa)</u></p> <p>pa ప</p> <p>Pa ప</p> <p>ba బ</p> <p>Ba బ</p> <p>ma మ</p> <p><u>Consonents (ya)</u></p> <p>ya య</p> <p>ra ర</p> <p>la ల</p> <p>La ల</p> <p>va వ</p> <p>sa శ</p> <p>Sa శ</p> <p>sha ష</p> <p>ha హ</p> <p>ksha ష</p> <p>jn^a ఙ</p>
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Kotipalli's Phonetic Scheme for Telugu, v1.1

**FIG. 8a**



**FIG. 8b**

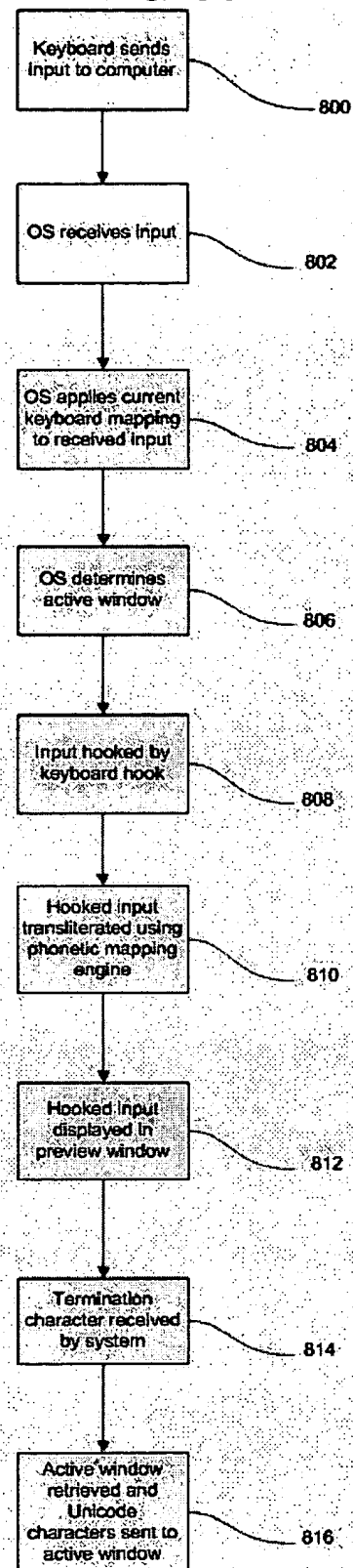




FIG. 9a

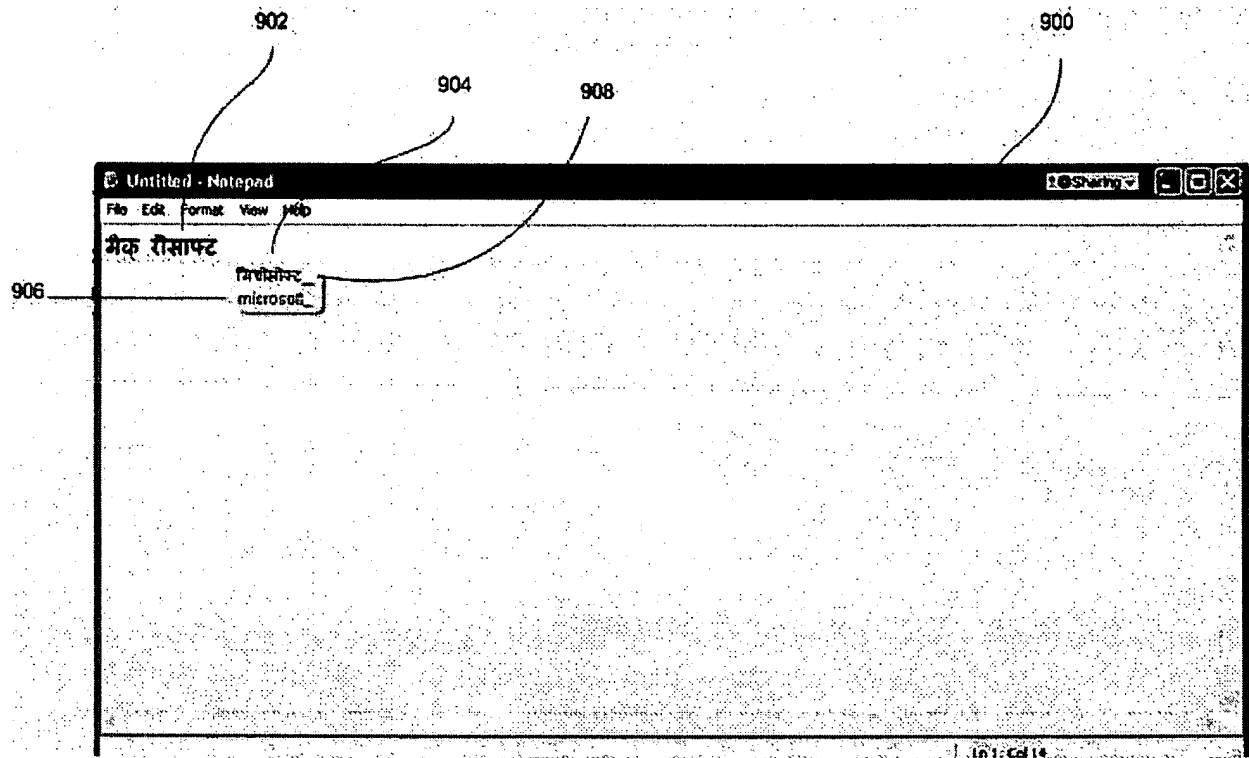
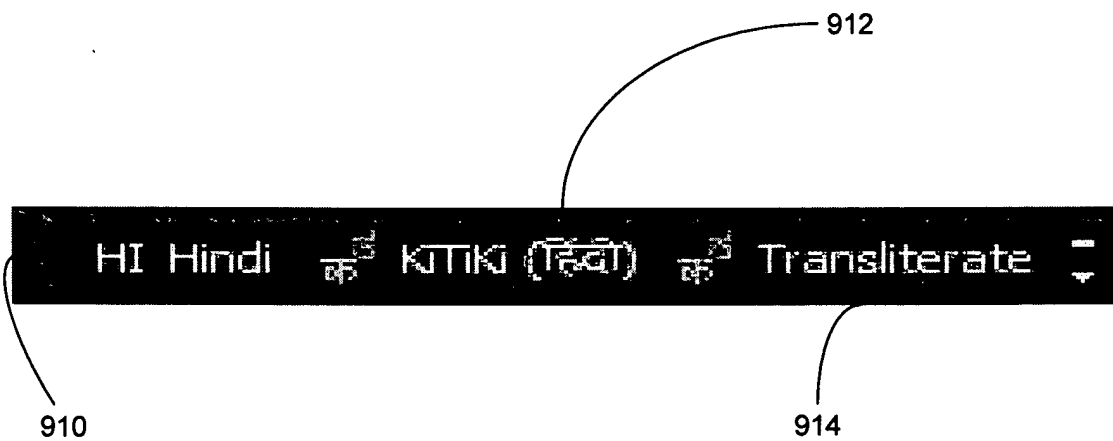


FIG. 9b



**FIG. 10**

